

Gorilla-Snot® Safety Data Sheet

MATERIAL SAFETY DATA SHEET

SECTION 1 - MATERIAL IDENTIFICATION

PRODUCT NAME	GORILLA-SNOT*
MANUFACTURER	*GORILLA-SNOT is a registered trademark of Soilworks, LLC. Soilworks, LLC. 1750 E Northrop Blvd, Ste 250 Chandler, AZ 85286-1595 USA
ONLINE INFORMATION	www.soilworks.com
EMERGENCY TELEPHONE NUMBERS	800.545.5420 USA 001.480.545-5454 International
REVISION DATE	August 2013 (<i>supersedes November 2007</i>)
PHYSICAL FORM	Mobile liquid
COLOR	Milky White (transparent once cured)
ODOR	Mild / Slight (no odor once cured)
C.A.S. CHEMICAL NAME	Mixture
SYNONYMS	Soil stabilizer, soil stabilization agent, soil solidifier, soil amendment, soil additive, soil crusting agent, dust control agent, dust inhibitor, dust palliative, dust suppressant, dust retardant
CHEMICAL FAMILY	Vinyl Copolymer Emulsion
EMPIRICAL FORMULA	Mixture
INTENDED USE	Soil stabilization, soil solidification, fugitive dust control, dust suppression, dust abatement, tackifier, dust abatement, PM ₁₀ and PM _{2.5} air quality control and erosion control

SECTION 2 - INGREDIENTS

	%	CAS Number	Chemical Name
1.	20-60	Proprietary	Vinyl Copolymer
2.	80-40	7732-18-5	Water

SECTION 3 - HEALTH HAZARDS

ROUTES OF ENTRY

Eye Contact, Skin Contact, Ingestion and Inhalation

SIGNS AND SYMPTOMS OF ACUTE EXPOSURE

Eyes: Direct contact with this material may cause eye irritation including lachrymation (tearing).

Inhalation: Inhalation of vapor or aerosol may cause irritation to the respiratory tract (nose, throat, and lungs). Skin:

Contact may cause skin irritation.

Ingestion: No hazard in normal industrial use.

SIGNS AND SYMPTOMS OF CHRONIC EXPOSURE

Prolonged or repeated contact with skin may cause irritation and dermatitis (inflammation).

CARCINOGENICITY

This material **does not** contain 0.1% or more of any chemical listed by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or regulated by the Occupational Safety and Health Administration (OSHA) as a carcinogen.

SECTION 4 - FIRST AID

EYE CONTACT

Flush eyes with clean water for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT

Remove contaminated clothing and shoes. Wash affected area with soap and water. Get medical attention if irritation develops or persists.

INHALATION

Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth-to-mouth). Supplemental oxygen may be indicated. Seek medical advice.

INGESTION

Give the victim one or two glasses of water or milk to drink. Get immediate medical attention. Never give anything by mouth to an unconscious person.

SECTION 5 – FIRE AND EXPLOSION DATA

FLASH POINT (closed cup)	Not applicable
UPPER EXPLOSION LIMIT (UEL)	Not applicable
LOWER EXPLOSION LIMIT (LEL)	Not applicable
AUTOIGNITION TEMPERATURE	Not applicable
FIRE HAZARD CLASSIFICATION (OSHA/NFPA)	Non-Combustible
EXTINGUISHING MEDIA	

Product does not burn. The product will only burn after the water it contains is driven off. For dry polymer use carbon dioxide, foam, dry chemical or water fog to extinguish fire. Aqueous solution is **not flammable**.

FIRE FIGHTING EQUIPMENT

Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use.

FIRE FIGHTING INSTRUCTIONS

Containers of this material may build up pressure if exposed to heat (fire). Use water spray to cool fire-exposed containers.

FIRE AND EXPLOSION HAZARDS

This material **will not burn** unless it is evaporated to dryness. Closed containers may rupture when exposed to extreme heat.

HAZARDOUS COMBUSTION PRODUCTS

When dried polymer burns, water (H₂O), carbon dioxide (CO₂), carbon monoxide (CO) and smoke are produced.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES (Removal of ignition sources, diking etc)

Stop the leak, if possible. Ventilate the space involved.

CLEAN-UP PROCEDURES

Wear suitable protective equipment. If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in an appropriate chemical waste container. Prevent spilled material from entering sanitary sewers, storm sewers, drainage systems and from entering bodies of water or ditches that lead to waterways. Transfer to containers by suction, preparatory for later disposal. Place in metal containers for recovery or disposal. Flush area with water spray. Wash contaminated property (e.g., automobiles) quickly before the material dries. For large spills, recover spilled material with a vacuum truck.

OTHER EMERGENCY ADVICE

Spilled polymer emulsion is very slippery. Use care to avoid falls. A film will form on drying. Remove saturated clothing and wash contacted skin area with soap and water. Product imparts a milky white color to contaminated waters. Foaming may result. Sewage treatment plants may not be able to remove the white color imparted to the water.

SECTION 7 – HANDLING AND STORAGE

STORAGE

Keep from freezing. Store in a dry area. Keep containers closed when not in use to minimize contact with atmospheric air and prevent inoculation with microorganisms.

HANDLING

Use only in well-ventilated areas. Avoid contact with eyes. Avoid breathing vapors. Avoid prolonged or repeated contact with skin. Wash hands thoroughly after handling and before eating or drinking.

SECTION 8 – PERSONAL PROTECTION / EXPOSURE CONTROLS

EXPOSURE GUIDELINES

There are no Occupational Safety and Health (OSHA) Permissible Exposure Limits (PEL) or American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLV) or Short Term Exposure Limits (STEL) established for the component(s) of this product.

EYE PROTECTION

Chemical safety glasses.

HAND PROTECTION

Rubber Gloves. The breakthrough time of the selected glove(s) must be greater than the intended use period.

RESPIRATORY PROTECTION

Not required under normal use.

PROTECTIVE CLOTHING

No specific recommendation.

ENGINEERING CONTROLS

Good general ventilation should be sufficient to control airborne levels of irritating vapors.

SECTION 9 – TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM	Liquid
COLOR	Milky White (transparent once cured)
ODOR	Mild / Slight (no odor once cured)
pH	4-9
EVAPORATION RATE	< 1 (BuAc=1)
VAPOR DENSITY	> 1 (Air = 1)
BOILING POINT	>100.00°C (>212.00°F)
FREEZING POINT	<0°C (<32°F)
SOLUBILITY IN WATER	Completely (100%) (until cured)
SPECIFIC GRAVITY (Water = 1)	1.02-1.10

SECTION 10 – STABILITY AND REACTIVITY

STABILITY

Stable at ambient temperatures. Coagulation may occur following freezing, thawing or boiling.

INCOMPATIBILITY (Materials to Avoid)

No incompatibilities have been identified.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition may form: Acetic acid and Acrolein. Thermal decomposition may produce various hydrocarbons and irritating, acrid vapors.

HAZARDOUS POLYMERIZATION

Will not occur

CONDITIONS TO AVOID

Freezing temperatures (until cured).

SECTION 11 – TOXICOLOGICAL PROPERTIES

ACUTE EYE TOXICITY

No Information is available.

ACUTE ORAL TOXICITY

No Information is available.

ACUTE SKIN TOXICITY

No Information is available.

ACUTE INHALATION TOXICITY

No Information is available.

CHRONIC/CARCINOGENICITY

This material **does not** contain 0.1% or more of any chemical listed by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or regulated by the Occupational Safety and Health Administration (OSHA) as a carcinogen.

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY

Common Name	Species	Test	Result	Concentration
Green Algae	Raphidocelus Subcapitata	96-hr chronic LC50	>1,000	Undiluted
Fathead Minnow	Pimephales Promelas	96-hr acute LC50	>1,208	Undiluted
Rainbow Trout	Oncorhynchus Mykiss	96-hr acute LC50	>1,000	Undiluted

ENVIRONMENTAL FATE

No data is available

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

This material **is not** a RCRA hazardous waste. Disposal of this material is not regulated under RCRA. Consult federal, state and local regulations to ensure that this material and its containers, if discarded, is disposed of in compliance with all regulatory requirements. NOTE: As supplied or diluted, product material (foam included), when splashed on automobiles or other personal property, is difficult to remove if allowed to dry.

RCRA HAZARD CLASS

This material **is not** a RCRA hazardous waste. When discarded in its purchased form, this material would not be regulated as a RCRA Hazardous waste under 40 CFR 261.

SECTION 14 – TRANSPORT INFORMATION

DOT NON-BULK SHIPPING NAME

Refer to Bill of Lading - Not DOT Regulated // Keep From Freezing // Not dangerous goods

DOT BULK SHIPPING NAME

Refer to Bill of Lading.

IMO SHIPPING DATA

Refer to Bill of Lading.

ICAO/IATA SHIPPING DATA

Refer to Bill of Lading - Not IATA Regulated // Keep From Freezing // Not dangerous goods

CFR

Not Regulated // Keep From Freezing // Not dangerous goods

IMDG

Not Regulated // Keep From Freezing // Not dangerous goods

CTC

Not Regulated // Keep From Freezing // Not dangerous goods

SECTION 15 – REGULATORY INFORMATION

TSCA SECTION 8(b) INVENTORY STATUS

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

TSCA SECTION 12(b) EXPORT NOTIFICATION

This material **does not** contain any components that are subject to the U.S. Toxic Substances Control Act (TSCA) Section 12 (b) Export Notification requirements.

OSHA Hazard Communication Standard (29CFR1910.1200) hazard class(es)

This material **is not** classified as hazardous under the criteria of the U.S. Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910.1200

EPA SARA Title III Section 304 CERCLA

Reportable quantities have not been established for any of this material's components.

EPA SARA Title III Section 311/312 HAZARD COMMUNICATION STANDARD (HCS)

This material **is not** a hazardous chemical.

EPA SARA Title III Section 313 TOXIC CHEMICAL LIST (TCL)

This product **does not** contain Section 313 Reportable Ingredients.

CANADIAN INVENTORY STATUS

All components of this material are listed on the Canadian Domestic Substances List (DSL)



Soil Stabilization & Dust Control

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001.480 545.5454 International
www.soilworks.com

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Chandler, AZ 85286 USA
info@soilworks.com

CANADIAN WHMIS

This material **is not** classified as a controlled product under the Canadian Workplace Hazardous Material Information System.

ADDITIONAL CANADIAN REGULATORY INFORMATION

This product **does not** contain a substance present on the WHMIS Ingredient Disclosure List (IDL) which is at or above the specified concentration limit.

EUROPEAN INVENTORY STATUS (EINECS)

The polymer portion of this product is manufactured from reactants which are listed on EINECS and meets the EINECS definition of an exempt polymer.

AICS (Australia)

Included on inventory

ENCS (Japan)

Included on inventory

ECL (South Korea)

Included on inventory

SEPA (China)

Included on inventory

SECTION 16 – OTHER INFORMATION

HMIS and NFPA Classification

Health	: 1
Flammability	: 0
Reactivity	: 0
Special Hazard	: 0

Soiltac® Safety Data Sheet

SOILTAC® SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

PRODUCT NAME	SOILTAC® Soil Stabilizer & Dust Control Agent		
CHEMICAL FAMILY	Synthetic Copolymer Dispersion		
MANUFACTURER	Soilworks®, LLC – Soil Stabilization & Dust Control 7580 N Dobson Rd, Ste 320 Scottsdale, Arizona 85256 USA (800) 545-5420 USA +1 (480) 545-5454 International info@soilworks.com www.soilworks.com		
EMERGENCY PHONE NUMBERS	(800) 545-5420	USA	
	+1 (480) 545-5454	International	
U.S. DATA UNIVERSAL NUMBERING SYSTEM (DUNS NUMBER)	Soilworks, LLC 131946159		
U.S. DEPARTMENT OF DEFENSE COMMERCIAL AND GOVERNMENT ENTITY CODE (CAGE CODE)	Soilworks, LLC 3FTH5		
U.S. DEPARTMENT OF DEFENSE NATIONAL STOCK NUMBERS (NSN)	275-gallon (1,041 Liter)	Intermediate Bulk Container (IBC) Tote	6850-01-519-4708
	55-gallon (208 Liter)	Drum	6850-01-519-4706
U.S. GENERAL SERVICES ADMINISTRATION (GSA) CONTRACT	Soilworks, LLC	GS-07F-5364P	October 31, 2018

SYNONYMS/OTHER MEANS OF IDENTIFICATION

Soiltac is a formulated, high molecular weight, engineered, prime synthetic copolymer dispersion.

INTENDED USES

For industrial use only. Major industries include construction, mining, military, municipal, oil & gas, energy & renewable energy and transportation.

Abate dust, air quality control, control dust, controlling dust, desertification prevention, dune stabilization, dust abatement, dust control, dust control agent, dust control material, dust control product, dust elimination, dust inhibitor, dust mitigation, dust palliative, dust pollution control, dust pollution prevention, dust prevention, dust reduction, dust retardant, dust stabilization, dust stabilizer, dust suppressant, dust suppression, eliminate dust, erosion control, erosion control material, erosion control product, erosion prevention, fines preservation, fugitive dust control, hydromulch tackifier, hydroseed tackifier, inhibit dust, mitigate dust, pm10 control, pm2.5 control, prevent dust, reduce dust, retard dust, road stabilization, road stabilizer, sand stabilization, soil additive, soil amendment, soil binder, soil crusting agent, soil solidifier, soil stabilization, soil stabilizer, stabilize dust, stabilize soil, stockpile capping, stop dust, suppress dust, surface wear course, wind erosion control.

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview

Appearance:	Milky white liquid (transparent once cured)
Odor:	Sweet and mild (no odor once cured)
Health Hazards:	Under normal conditions of industrial use, this material is NOT expected to be a primary route of exposure
Safety Hazards:	Nonflammable
Environmental Hazards:	NOT classified as dangerous for the environment

HEALTH HAZARDS

INHALATION	Under normal conditions of industrial use, this material is NOT expected to be a primary route of exposure.
SKIN CONTACT	Under normal conditions of industrial use, this material is NOT expected to be a primary route of exposure.
EYE CONTACT	Under normal conditions of industrial use, this material is NOT expected to be a primary route of exposure.
INGESTION	Under normal conditions of industrial use, this material is NOT expected to be a primary route of exposure.

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS)

Not a hazardous substance or mixture.

U.S. HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATING

Health	0	No significant risk to health
Flammability	0	Material will not burn
Physical Hazard	0	Stable, non-reactive and non-explosive
Personal Protection	-	No special hazard under normal use

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS

This material does NOT contain hazardous ingredients and is NOT considered hazardous according to OSHA criteria.

#	COMPONENT	%	CAS Number
1.	Synthetic Vinyl Copolymer Dispersion	55%	Non-Hazardous
2.	Water	45%	7732-18-5

BYPRODUCT / RECYCLED CONTENT

None

SECTION 4 – FIRST-AID MEASURES

Provide medical care provider with this Safety Data Sheet.

EYE CONTACT

If irritation or redness develops from exposure, flush eyes with clean water at least 15 minutes. If irritation persists, seek medical attention.

SKIN CONTACT

No treatment necessary under normal conditions of use. Remove contaminated clothing. Wash affected area with mild soap and water. If irritation or redness develops and persists, seek medical attention.

INHALATION

No treatment necessary under normal conditions of use. If breathing difficulties develop move victim away from source of exposure and into fresh air in a position comfortable for breathing. If symptoms persist, seek medical attention.

INGESTION

If swallowed do not induce vomiting. If symptoms persist, seek medical attention.

SECTION 5 – FIRE-FIGHTING MEASURES

FLAMMABILITY

Nonflammable and NOT combustible.
This material is an aqueous mixture that will not burn.
Dried material will burn in a fire.

FLASH POINT

Nonflammable

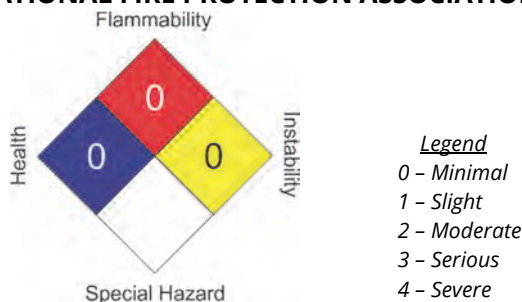
EXTINGUISHING MEDIA

Use water spray, foam, dry chemical or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES & PROTECTIVE EQUIPMENT

Cool closed containers exposed to fire with water spray. Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

U.S. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 704 HAZARD CLASS



SECTION 6 – ACCIDENTAL RELEASE MEASURES

For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

PROTECTIVE MEASURES

Stop the leak, if possible. Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches, sewers, rivers or open bodies of water by using sand, earth or other appropriate barriers.

CLEAN-UP METHODS

Avoid accidents, clean up immediately. Slippery when spilled. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

ADDITIONAL ADVICE

Local authorities should be advised if significant spillages cannot be contained.

SECTION 7 - HANDLING AND STORAGE

GENERAL PRECAUTIONS

Use local exhaust ventilation if there is risk of inhalation of vapors, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

STORAGE

Keep container tightly closed in a cool, well-ventilated place. Use properly labelled and closeable containers. Maintain storage temperature $\geq 40^{\circ}\text{F}$ (4°C) to avoid freezing and destabilization. Ideal storage temperature is 72°F (22°C).

HANDLING

Avoid breathing vapors or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. When handling material in drums, safety footwear should be worn and proper handling equipment should be used.

RECOMMENDED MATERIALS

For containers or container linings, use mild steel or high density polyethylene.

ADDITIONAL INFORMATION

Do not freeze.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

Contains no substances with occupational exposure limit values.

EXPOSURE CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

RESPIRATORY PROTECTION

Respiratory protection is NOT required under normal conditions of use in a well-ventilated workplace. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapors.

HAND PROTECTION

Where hand contact with the material may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed with soap and water and dried thoroughly.

EYE PROTECTION

Eye protection is NOT required under normal conditions of use. If material is handled such that it could be splashed into eyes, wear splash-proof safety goggles or full face shield.

PROTECTIVE CLOTHING

Skin protection is NOT required under normal conditions of use or for single, short duration exposures. For prolonged or repeated exposures, use impervious chemical resistant boots, gloves and/or aprons over parts of the body subject to exposure.

MONITORING METHODS

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT	>212 °F (>100 °C)
COLOR	Milky white (transparent once cured)
DENSITY	8.85-9.15 lb./gal (1.06-1.1 kg/l)
DYNAMIC VISCOSITY	290 cP @ 140 °F (60 °C)
DYNAMIC VISCOSITY	420 cP @ 104 °F (40 °C)
EVAPORATION RATE	<1 (BuAc = 1)
FLASH POINT	Nonflammable
FREEZING POINT	<32 °F (<0 °C)
ODOR	Sweet and mild (no odor once cured)
PH	5
PHYSICAL FORM	Liquid
SPECIFIC GRAVITY	1.05-1.10
VAPOR DENSITY	>1 (Air = 1)
WATER SOLUBILITY	100% dispersible, completely (until cured)

SECTION 10- STABILITY AND REACTIVITY

CHEMICAL STABILITY

Stable. Coagulation may occur following freezing, thawing or boiling.

Stability at 72 °F (22 °C) is ≥12 months.

CONDITIONS TO AVOID

Freezing (until cured).

HAZARDOUS REACTIONS

Hazardous polymerization does not occur.

HAZARDOUS DECOMPOSITION

Hazardous decomposition products are NOT expected to form during normal storage.

CORROSIVITY

Non-corrosive.

SECTION 11 - TOXICOLOGICAL INFORMATION

CARCINOGENICITY

Components $\geq 0.1\%$ are NOT known to be associated with carcinogenic effects.

ACGIH	American Conference of Governmental Industrial Hygienists	Not listed as carcinogenic
IARC	World Health Organization International Agency for Research on Cancer	Not listed as carcinogenic
NTP	U.S. National Toxicology Program	Not listed as carcinogenic
OSHA	U.S. Occupational Safety and Health Administration	Not listed as carcinogenic
Prop 65	California Office of Environmental Health Hazard Assessment Proposition 65	Not listed as carcinogenic

REPRODUCTIVE AND DEVELOPMENTAL TOXICITY

NOT expected to be a hazard.

DIOXINS & FURANS (PCDD's / PCDF's)

None Detected – QC066-97, GC-MS

METALS

None Detected – EPA 6020 & 3050

POLYCHLORINATED BIPHENYL (PCBs) AROCLORS

None Detected – EPA 8082

POLYCYCLIC AROMATIC HYDROCARBONS (PAH's)

None Detected – EPA 3510, GC-MS

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOC)

None Detected - EPA 8270, GC-MS

VOLATILE ORGANIC COMPOUNDS

None Detected – EPA 8260, GC-MS

SECTION 12 - ECOLOGICAL INFORMATION

Based on EPA guidelines, this material is classified as practically non-toxic to all species. When used and applied properly, this material is not known to pose any ecological problems.

AQUATIC TOXICITY

Bacterium	Aliivibrio fischeri	15 minute	IC ₅₀	>6,200 mg/L
Fathead Minnow	Pimephales promelas	7 day	IC ₅₀	>95,000 mg/L
Fathead Minnow	Pimephales promelas	7 day	LC ₅₀	>240,000 mg/L
Fathead Minnow	Pimephales promelas	96 hour	LC ₅₀	>1,200 mg/L
Microalga	Pseudokirchneriella subcapitata	96 hour	IC ₅₀	>250,000 mg/L
Microalga	Pseudokirchneriella subcapitata	96 hour	LC ₅₀	>1,000 mg/L
Rainbow Trout	Oncorhynchus mykiss	96 hour	LC ₅₀	>1,000 mg/L
Water Flea	Daphnia magna	48 hour	LC ₅₀	>175,000 mg/L

TERRESTRIAL TOXICITY

Earthworm	Eisenia andrei	14 day	LC ₅₀	>1,000,000 mg/L
Lettuce	Root elongation	120 hour	EC ₅₀	>1,000,000 mg/L
Lettuce	Seed germination	120 hour	LC ₅₀	>1,000,000 mg/L

OTHER ADVERSE EFFECTS

The material contains non-volatile components, which are NOT expected to be released to air in any significant quantities. The material is NOT expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

SECTION 13 - DISPOSAL CONSIDERATIONS

MATERIAL DISPOSAL

Recover or recycle if possible. Do NOT dispose into the environment, in drains or in water courses. To the best of our knowledge, this material does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.

CONTAINER DISPOSAL

Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

LOCAL LEGISLATION

Dispose in accordance with applicable regional, national and local laws and regulations.

SECTION 14 - TRANSPORT INFORMATION

NOT dangerous goods.

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

NOT regulated. This material is NOT subject to DOT regulations under 49 CFR Parts 171-180.

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)

NOT regulated. This material is NOT classified as dangerous under IMDG regulations.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)

NOT regulated. This material is either NOT classified as dangerous under IATA regulations or needs to follow country specific requirements.

SECTION 15 - REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

U.S. FEDERAL REGULATIONS

EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA)

This material does NOT contain any chemicals with U.S. EPA CERCLA reportable quantities.

EPA SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA)

This material does NOT contain any chemicals with SARA reportable quantities.

EPA TOXIC SUBSTANCES CONTROL ACT (TSCA)

All components listed or in compliance with the inventory.

EPA CERCLA/SARA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES AND TPQS

This material does NOT contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

EPA CERCLA/SARA SECTION 311/312 (TITLE III HAZARD CATEGORIES)

Acute Health: No
Chronic Health: No
Fire Hazard: No
Pressure Hazard: No
Reactive Hazard: No

EPA CERCLA/SARA SECTION 313 AND 40 CFR 372

This material does NOT contain any chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372.

CLEAN AIR ACT (CAA)

This material does NOT contain any hazardous air pollutants (HAP, as defined by the CAA Section 12 (40 CFR 61).

U.S. STATE REGULATIONS

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65)

This material does NOT contain any chemicals known to the State of California to cause cancer, birth defects or reproductive harm.

CANADIAN REGULATIONS

This material has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the regulations.

CANADIAN DOMESTIC SUBSTANCES LIST (DSL)

All components listed or in compliance with the inventory.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHIMIS)

None. This material is NOT a controlled material under the Canadian WHIMIS.

BUREAU DE NORMALIZATION DU QUÉBEC (BNQ)

Soiltac conformed as a dust control agent for non-asphalted roads and other similar surfaces.

Certificate of Conformity: 2014-08-06 – 2015-06-30
Certificate #: 1743
Standard #: BNQ 2410-300/2009-10-01
Certification Protocol #: BNQ 2410-900/2010-01-12

INVENTORY REGULATIONS

Australia	AICS	All components listed or in compliance with the inventory.
Canada	DSL/NDL	All components listed or in compliance with the inventory.
China	IECSC	All components listed or in compliance with the inventory.
Japan	ENCS	All components listed or in compliance with the inventory.
Korea	KECI	All components listed or in compliance with the inventory.
Philippines	PICCS	All components listed or in compliance with the inventory.
United States	TSCA	All components listed or in compliance with the inventory.

INVENTORIES LEGEND

AICS	Australian Inventory of Chemical Substances
DSL	Canadian Domestic Substances List
ENCS	Japanese Existing and New Chemical Substances
IECSC	China Existing Chemical Inventory
KECI	Korea Existing Chemicals Inventory
NDSL	Canadian Non-Domestic Substances List
PICCS	Philippine Inventory of Chemicals and Chemical Substances
TSCA	Toxic Substances Control Act

SECTION 16 – OTHER INFORMATION

SDS VERSION NUMBER 1.1

SDS EFFECTIVE DATE 7/13/2015

SDS REGULATIONS

The content and format of this SDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SDS DISTRIBUTION

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Monthly Inspection Outline

Monthly visual inspection of the Soiltac on the Former Lagoon Area and perimeter berm.

1. Use of proper personal protective equipment (PPE) is required. Toxic Substance Control Act (TSCA) decontamination is required for any equipment that comes into contact with polychlorinated biphenyls (PCB)-contaminated soil (as per 40 CFR 761.79).
2. Monitoring points (MP) located at previously observed areas of erosion are designated with flags and/or stakes. Stakes are marked with red tape to indicate top of soil. Each MP is photographed during the inspection for comparison to previous month's inspection.
3. Place stake/flag at any new areas of erosion that are identified.
4. Identify any areas of the berm that require repair or placement of hay bales.
5. Dispose of PPE in PCB hazardous waste drum located inside the RCRA storage tent.
6. Complete Soil Erosion and Sediment Control (SESC) Inspection form, upload photos to server and record documentation of inspection.
7. Compare photos and documentation to previous inspections. If areas of significant erosion are identified, contact Weston's on-call contractor, Renova, to reapply Soiltac to the areas. Renova must complete the reapplication of Soiltac within 1 week, weather permitting, after notification.

Inspection Forms, Photos and Notes: [L:\13067 Hatco\7.0 Permits and Compliance\7.2 Regulatory Compliance Documentation\Inspections SESC \(Weston\)\Former Lagoon](L:\13067 Hatco\7.0 Permits and Compliance\7.2 Regulatory Compliance Documentation\Inspections SESC (Weston)\Former Lagoon)

PPE

Reflective vest
Hard hat
Nitrile gloves
Safety glasses
Tyvek suit (if necessary)
Safety shoes (steel toe boots)
Long sleeves and pants
Rubber boot covers
Duct tape
Garbage bag

Supplies

Stakes
Flags
Red tape
Mallet
Hay bales
Camera
MP Map

Job Safety Analysis

Task No. 4 – Maintenance and repairs to Temporary Lagoon Cap

COMPANY/ PROJECT NAME or ID/ LOCATION (City, State) Weston Solutions / Hatco / Fords, NJ		DATE PREPARED FOR HSP: 02/11/16	<input checked="" type="checkbox"/> NEW <input type="checkbox"/> REVISED
JSA WORK ACTIVITY (Description) Maintenance and repairs to temporary lagoon cap		List of Contractor(s) and key work activity: Maintenance, repairs, lagoon, inspection, cap	
SITE SPECIFIC JSA AUTHOR	POSITION / TITLE	DEPT	SIGNATURE
Rebekah Morris	Assistant GeoScientist II	ES&T	
“Weston APPROVED” JSA DEVELOPMENT TEAM		POSITION / TITLE	APPROVAL
Required PPE (indicate with “R”) vs. Must Have Available On-site (indicate “A”)			
<u>A</u> REFLECTIVE VEST <u>R</u> HARD HAT <u>A</u> NITRILE GLOVES <u>A</u> CHEMICAL RESISTANT GLOVES: Viton® or Butyl Rubber Gloves <u>R</u> SAFETY GLASSES <u>A</u> GOGGLES <u> </u> FACE SHIELD	<u>A</u> HEARING PROTECTION <u>R</u> SAFETY SHOES: <u>Steel Toe</u> <u> </u> 5pt.HARNESS / LANYARD PPE CLOTHING: <u>A</u> Coveralls <u>R</u> Tyvek® Suit <u> </u> Silver Shield® splash apron <u> </u> Nomex <u> </u> Other (specify):	RESPIRATORY PROTECTION: <input type="checkbox"/> NA <u> </u> Disposable Particulate Respirator (N95) <u>A</u> ½ face Air Purifying Respirator (APR) <u> </u> Particulate Mask: <input type="checkbox"/> PM100 <input type="checkbox"/> PM95 <u> </u> Cartridge: <input type="checkbox"/> P100-Multigas <input type="checkbox"/> <u> </u> Full-face Respirator; specify cartridge type: <u> </u> Organic Vapor/Acid Vapor Cartridges <u> </u> Air Supplied Respirator <u> </u> SCBA <u> </u> Air-line	Additional PPE:
Always perform a Safety Assessment: 1) prior to starting work; 2) when changing tasks; and 3) throughout the day. Focus on each new task, procedures, and skill sets to be used.			
¹ JOB TASKS	² POTENTIAL HAZARDS	³ HAZARD CONTROLS (beyond wearing “Required” PPE)	
1. Set-up activities. Perform pre-job site safety evaluation. Evaluate site conditions.	a. Lack of concentration and unfamiliarity with site b. Moving vehicles c. Fire/Explosions d. Slip/trips and falls e. Visitors/spectators f. Heat illness g. Cold stress	a. Review all plans prior to starting a new task. b. Always face traffic or moving equipment when working (establish eye contact with drivers). b. Use “buddy system” when unable to observe traffic when moving equipment (>40 lbs). c. No smoking or open flames while on site. Request anyone smoking to please extinguish cigarettes. Identify location(s) of all fire extinguishers. d. Maintain good housekeeping—place unused equipment out of walkways and work areas. Do not overload yourself while carrying equipment to wells within the tank farm. Make multiple trips if necessary. e. Control entry in work area using exclusion zones and record visitors/spectators in the field book. f. Refer to Heat Stress Prevention and Monitoring FLD #5 included in Attachment C. g. Refer to Cold Stress Prevention and Monitoring FLD #6 included in Attachment C.	

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1. Set-up activities. Perform pre-job site safety evaluation. Evaluate site conditions (continued).	h. Biological and animal hazards	<p>h. Be aware of potential biological and animal hazards including mosquitoes, bees, wasps, hornets, ticks, poison ivy, poison oak, poison sumac, snakes., and feral animals. Refer to General Biological Hazards FLD #43, Animals FLD #43A, Insects FLD #43B, and Hazardous Plants FLD #43D included in Attachment C.</p> <p>h. Always wear long pants and long sleeves on-Site. If poison ivy, poison poison oak, or poison sumac has been identified, avoid walking through or working in that area. If it is necessary to enter the area, wear full-body Tyvek, nitrile gloves, and safety glasses to prevent contact with the skin.</p> <p>h. If ticks are present, wear full-body Tyvek and nitrile gloves. Seal openings with duct tape to reduce the risk of Tick contact. Check for ticks on the skin at the end of the work day.</p>	
	i. Contamination	i. Wear appropriate PPE (nitrile gloves, safety glasses, Tyvek© coveralls, and steel-toe rubber boots). The soils in the former lagoon area contain materials which are contaminated with polychlorinated biphenyls (PCBs) above 50 mg/kg threshold established by the USEPA Toxic Substances Control Act (TSCA).	
2. Soiltac mixing and spraying	a. Soiltac eye contact	a. Flush eyes with clean water for at least 15 minutes. If irritation persists, seek medical attention.	
	b. Soiltac skin contact	b. Remove contaminated clothing. Wash affected area with mild soap and water. If irritation or redness develops and persists, seek medical attention.	
	c. Soiltac inhalation	c. If breathing difficulties develop move victim away from source of exposure and into fresh air in a position comfortable for breathing. If symptoms persist, seek medical attention.	
	d. Soiltac ingestion	d. If swallowed do no induce vomiting. Move victim away from source of exposure. If symptoms persist, seek medical attention.	
	e. Slips/trips and falls	e. Maintain good housekeeping—place unused equipment out of work areas, keep it stored in a truck or storage area. Do not overload yourself while carrying equipment in the soil stockpile. Make multiple trips if necessary.	
	f. Contamination	f. Follow procedures for air monitoring as outlined in the PID Calibration and Air Monitoring JSA found in Section 4.1.1.1 of this HASP.	
3. Decontamination and cleaning of equipment	a. TSCA decontamination	<p>a. A temporary polyethylene plastic-lined decontamination pad shall be used for recovery and containment of fluids generated during decontamination of equipment.</p> <p>a. All fluids generated during the decontamination process shall be transferred to drums.</p> <p>a. The polyethylene plastic liner and the decontamination pad shall be removed after completion of the work.</p> <p>a. Follow procedures in 40 CFR 761.79 for TSCA-compliant decontamination.</p>	

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4. Disposal of generated decontamination and soiltac fluids	a. TSCA decontamination fluids	a. Drums containing decontamination fluids shall be disposed in accordance with 40 CFR 761.79(g).	

Field Notes:

Task No. 4.1 – Inspection of temporary cap on former lagoon area

COMPANY/ PROJECT NAME or ID/ LOCATION (City, State) Weston Solutions / Hatco / Fords, NJ		DATE PREPARED FOR HSP: 08/26/16	<input checked="" type="checkbox"/> NEW <input type="checkbox"/> REVISED
JSA WORK ACTIVITY (Description) Inspection of temporary lagoon cap on former lagoon area		List of Contractor(s) and key work activity: Lagoon, inspection, temporary cap	
SITE SPECIFIC JSA AUTHOR	POSITION / TITLE	DEPT	SIGNATURE
Habib Bravo-Ruiz	Assistant Geoscientist I	ES&T	
“Weston APPROVED” JSA DEVELOPMENT TEAM		POSITION / TITLE	APPROVAL
Required PPE (indicate with “R”) vs. Must Have Available On-site (indicate “A”)			
<u>A</u> REFLECTIVE VEST <u>R</u> HARD HAT <u>R</u> NITRILE GLOVES <u>A</u> CHEMICAL RESISTANT GLOVES: Viton® or Butyl Rubber Gloves <u>R</u> SAFETY GLASSES <u>A</u> GOGGLES <u> </u> FACE SHIELD	<u>A</u> HEARING PROTECTION <u>R</u> SAFETY SHOES: Steel Toe or Composite <u> </u> 5pt.HARNES / LANYARD PPE CLOTHING: <u>A</u> Coveralls <u>A</u> Tyvek® Suit <u> </u> Silver Shield® splash apron <u>R</u> Other (specify): Rubber boot coveralls	RESPIRATORY PROTECTION: <input type="checkbox"/> NA <u> </u> Disposable Particulate Respirator (N95) <u>A</u> ½ face Air Purifying Respirator (APR) <u> </u> Particulate Mask: <input type="checkbox"/> PM100 <input type="checkbox"/> PM95 <u>A</u> Cartridge: <input type="checkbox"/> P100-Multigas <input type="checkbox"/> <u> </u> Full-face Respirator; specify cartridge type: Organic Vapor/Acid Vapor Cartridges <u> </u> Air Supplied Respirator <u> </u> SCBA Air-line	Additional PPE:
Always perform a Safety Assessment: 1) prior to starting work; 2) when changing tasks; and 3) throughout the day. Focus on each new task, procedures, and skill sets to be used.			
¹ JOB TASKS	² POTENTIAL HAZARDS	³ HAZARD CONTROLS (beyond wearing “Required” PPE)	
1. Set-up activities. Perform pre-job site safety evaluation. Evaluate site conditions.	a. Lack of concentration and unfamiliarity with site b. Fire/Explosions c. Visitors/spectators d. Heat illness e. Cold stress f. Contamination	a. Review all plans prior to starting a new task. b. No smoking or open flames while on site. Request anyone smoking to please extinguish cigarettes. Identify location(s) of all fire extinguishers. c. Control entry in work area using exclusion zones and record visitors/spectators in the field book. d. Refer to Heat Stress Prevention and Monitoring FLD #5 included in Attachment C. e. Refer to Cold Stress Prevention and Monitoring FLD #6 included in Attachment C. f. Wear appropriate PPE (hard hat, safety glasses, nitrile gloves, steel-toe or composite rubber boots, and rubber boot coveralls). The soils in the former lagoon area contain soils contaminated with polychlorinated biphenyls (PCBs) above 50 mg/kg threshold established by the USEPA Toxic Substances Control Act (TSCA).	
2. Inspection of temporary cap on former lagoon area.	a. Lost equipment b. Slips, trips and falls	a. Fasten equipment (e.g. camera) using appropriate equipment strap. Do not carry loose pens or tools in pockets. Anything that comes in contact with the contaminated soils has to be decontaminated and potentially wipe sampled. b. Watch for slips/trips hazards on unstable surfaces such muddy areas and erosional gullies.	

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3. PPE removal and end of day inspections.	a. Contamination	a. If leaving the former lagoon area, remove rubber boot coveralls and nitrile gloves and place them in a contractor bag. Dispose of contractor bag in designated PPE drum. a. Follow the end of day inspections and close-out procedures, and PPE removal and disposal JSA in Section 4.1.14 of the HASP.	

Field Notes:

Former Lagoon Area Monitoring Location Diagram

Former Lagoon Temporary Cap

SESC and SoilTac Inspections

Monitoring Points 1 - 11

